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basic imagery interpretation report

Production Activity at Selected Soviet Electronics Equipment Plants (S)

COMMO/ELEC/RADAR R&D FACILITIES
BE: Various
USSR

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INSTALLATION OR ACTIVITY NAME					COUNTRY
Production Activity at Selected Soviet Electronics Plants					UR
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NO.	COMIREX NO.	NIETB NO.
NA	See below	See below	See below	See below	See below

MAP REFERENCE

DMA. USATC; Series 200; Sheets 0249-01, 0167-05, 0154-25, and 0291-06; scale 1:200,000

LATEST IMAGERY USED	NEGATION DATE (If required)
	NA .

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Installation Name	Geographic Coordinates	IDHS	BE No	MRN
Zaporozhye Radar Plant ZPE	47-50-10N 035-13-45E			
Lianozovo Electronic Equipment Plant Vagonremont	55-53-20N 037-32-58E			
Pravdinsk Radar Assembly Plant	56-30-38N 043-32-33E			
Moskva Radar Plant Kuntsevo 304	55-42-33N 037-26-15E			
Vladivostok Electronic Equipment Plant	43-06-41N 131-55-12E			

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ABSTRACT

1. (S/D) This report discusses production activity observed at five Soviet electronics equipment plants through [redacted] Plants which are involved in the production of early warning range and azimuth radars, height-finding radars, and other electronics-related equipment are discussed in this report.

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2. (U) This report contains a location map and five annotated photographs.

INTRODUCTION

3. (S/D) The Soviets have a very active production program of radar- and electronics-related equipment at four of the five plants (Figure 1) discussed in this report. At the Vladivostok Electronic Equipment Plant, no production of electronics equipment was observed. The active plants are involved in producing early warning range and azimuth radars, height-finding radars, transportable electronics towers, and electronics vans. The following are indications that production activity is underway at these plants:

a. The components of ODD GROUP and ODD PAIR radars were observed at Zaporozhye Radar Plant ZPE,
b. The components of BACK TRAP and/or BACK NET radars were observed at Lianozovo Electronic Equipment Plant, and
c. Probable transportable electronics towers were observed at Zaporozhye and Lianozovo.

BASIC DESCRIPTION

Zaporozhye Radar Plant ZPE

4. (S/D) Radar production facilities at Zaporozhye (Figure 2) consist of seven administration or engineering/research buildings, six fabrication buildings, eight shop buildings, one crating building, and one large covered storage yard. Support for the plant is provided by one security building, seven vehicle storage and/or maintenance buildings, 11 storage buildings, and 14 support buildings. The plant is secured by a wall and is served by road and rail.

5. (S/D) This plant has been primarily involved in the production of height-finding radars since the early 1970s. The ODD PAIR and ODD GROUP radars and their associated equipment are currently being produced there. However, from 1970 to 1975, SIDE NET radars were produced at this plant.

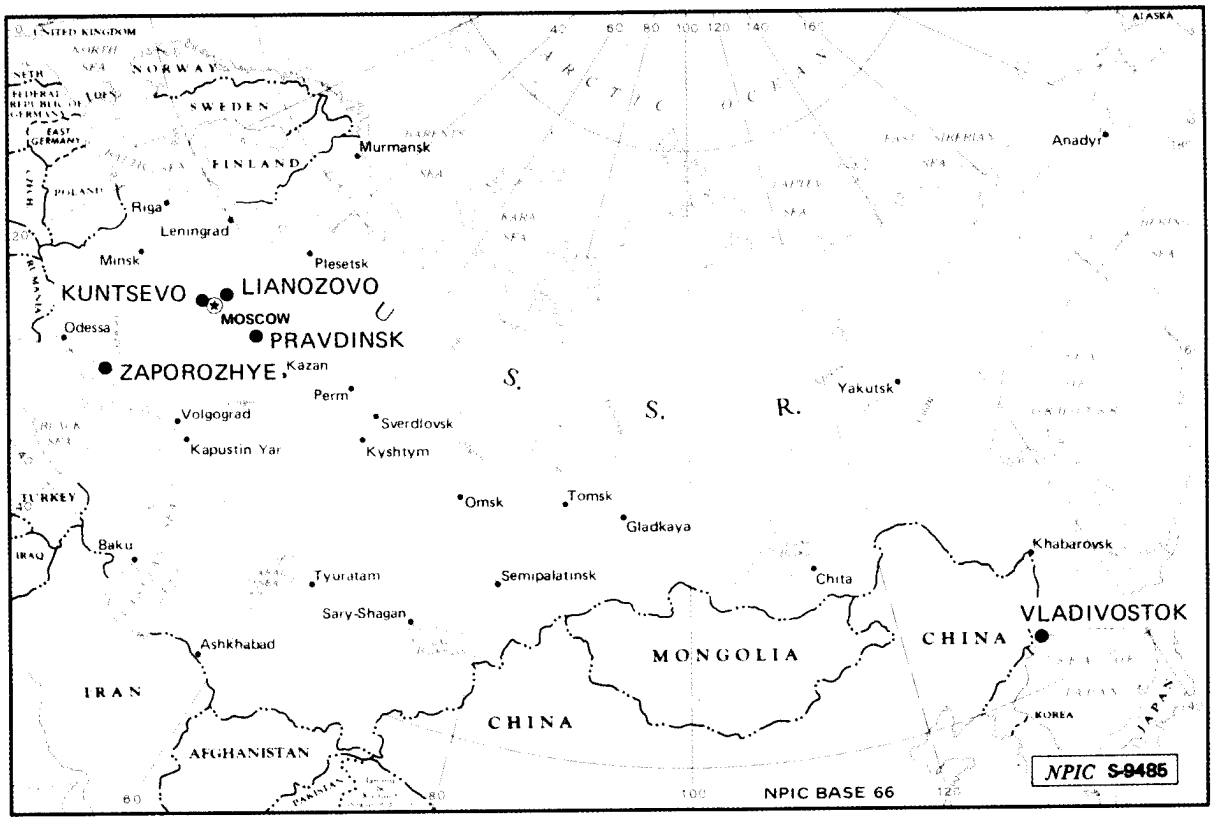

FIGURE 1. LOCATIONS OF SELECTED SOVIET ELECTRONICS EQUIPMENT PLANTS

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6. (S/D) ODD PAIR chassis were first identified in November 1975; in June 1979, the largest number of chassis, 48, were observed in the shipping yard of the plant. In addition to the 48 chassis, 28 large and eight small ODD PAIR antenna crates were observed.

7. (S/D) Production of ODD GROUP radars probably began early in 1977. The first identification of the ODD GROUP chassis and the chamfered-roof van associated with the ODD GROUP were first observed in August 1977. ODD GROUP is the follow-on to the ODD PAIR radar. This large, new Soviet height-finding radar was previously identified as the DO-EL-06. Usually five or six ODD GROUP radar chassis were observed at this plant.

8. (S/D) Various other pieces of electronics equipment have been observed at the plant in addition to the height-finding radars. This equipment does not appear to be in series production at Zaporozhye since only one or two of each kind has been observed. Also, some of these pieces of equipment were parked in the same spot for long periods of time, indicating that this plant might have a repair and checkout capability.

9. (S/D) The other most important piece of electronics equipment observed at the plant was the transportable electronics tower (TET). The tower is used to support the SH-EL-01 and AN-EL-01 radars. The TET was first observed parked next to the covered storage yard in June 1979 and was still present when last observed on [redacted] The MAZ-535/-537 prime mover for the TET was present on [redacted]

10. (S/D) Other electronics equipment observed at the plant included a PAT HAND collimation vehicle, an R-400/-404 calibration vehicle, a CHEESE BRICK/DOME BRICK jammer, a KING PIN jammer, various generator vans, and control vans.

Lianozovo Electronic Equipment Plant Vagonremont

11. (S/D) This electronics equipment plant (Figure 3) consists of three areas—a fabrication and assembly area, a test/calibration area, and a vehicle storage area. The fabrication and assembly area consists of one large fabrication building, one shop building, one shipbuilding/fabrication building under construction, five engineering/research buildings, one environmental dome, six administration buildings, and 21 support buildings. The test/calibration area consists of one multistory building and a concrete parking apron surrounded by a screen. The vehicle storage area consists of three vehicle parking areas, POL storage, a heating plant, and a support building. The plant is secured and is served by rail and road.

12. (S/D) BACK TRAP/BACK NET radars, LONG TRACK radars, BAR LOCK radars, SIDE NET radars, THIN SKIN B radars, and probably the TET are produced at this plant.

13. (S/D) The production of BACK TRAP/BACK NET radars probably began in 1979, since the components were first identified on imagery of August 1979. At that time, at least four sets of BACK TRAP/BACK NET components were observed there.

14. (S/D) The TETs have been at this plant since January 1976, when two were observed. Since then, one or two TETs have usually been observed everytime the plant was imaged.

15. (S/D) Production of LONG TRACK, BAR LOCK, SIDE NET, and THIN SKIN radars is probably continuing at the plant. Usually at least 12 LONG TRACK radars, eight BAR LOCK radar chassis, three SIDE NET, and four THIN SKIN radars are observed at the plant.

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16. (S/D) In addition to the radars, at least 50 vans, ten ZIL-157 round top electronics vans, and 15 two-axle round top electronics vans are usually observed at the plant.

Moskva Radar Plant Kuntsevo 304

17. (S/D) Moskva Plant 304 (Figure 4) consists of three administration buildings, five engineering/research buildings, 16 fabrication buildings, and one vehicle maintenance/storage building. The plant also includes six storage buildings, two transshipment buildings, and six support buildings which provide support. The plant is wall secured and is rail and road served.

18. (S/D) Two-axle electronics vans are produced at this plant. Usually, 30 electronics vans are present, although in June 1974 a high of 97 vans was observed. The function or the relationship of the vans to other radar systems cannot be determined.

Pravdinsk Radar Assembly Plant

19. (S/D) The Pravdinsk Assembly Plant (Figure 5) consists of four administration/engineering buildings, six large assembly/fabrication buildings, and two air-supported structures. Support consists of an electric substation, a fuel storage bunker, and 22 support buildings.

20. (S/D) BACK TRAP-associated, two-axle electronics vans are produced at this plant. At least 30 two-axle vans are usually present. Several BACK TRAP radar antenna crates have also been observed in open storage. BACK TRAP radars have been tested at Pravdinsk Radar Research and Development Facility [redacted] which is 5.0 nautical miles (nm) west-northwest of the plant. 25X1

Vladivostok Electronic Equipment Plant

21. (S/D) The electronic equipment plant at Vladivostok (Figure 6) consists of one administration building, six engineering/research buildings, seven fabrication buildings, one shop building, and a shipping building. Support for the plant includes one security building, 19 storage/-support buildings, and one abandoned building. The plant is secured by a wall and is served by rail and road.

22. (S/D) No electronics equipment was observed at the plant from January 1975 to [redacted] 25X1
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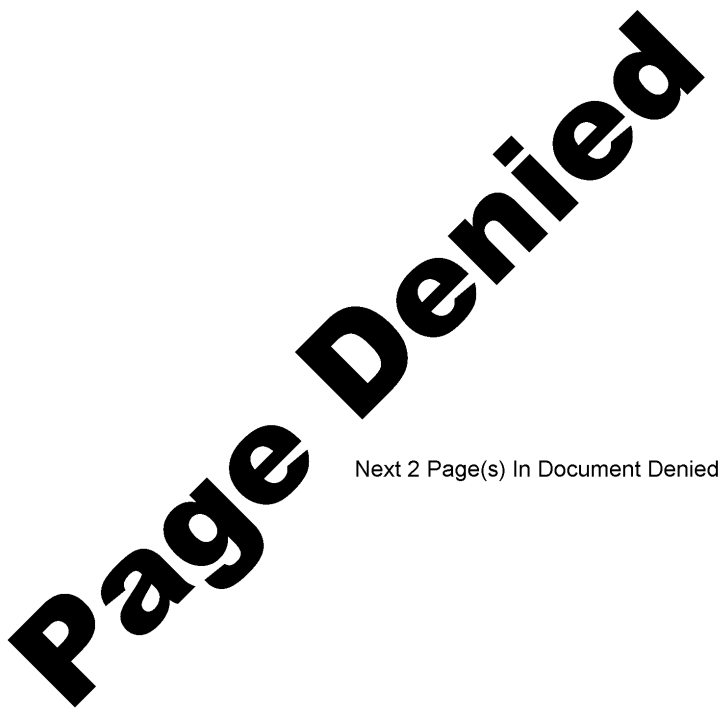

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REFERENCES

IMAGERY

(S/D) All applicable imagery acquired from [redacted] was used in the preparation of this report. 25X1

MAPS OR CHARTS

DMA. US Air Target Chart; Series 200; Sheets 0249-01, 0167-05, 0154-25, and 0291-06; scale 1:200,000 (UNCLASSIFIED)

REQUIREMENT

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Project 200001DU

(S) Comments and queries regarding this report are welcome. They may be directed to [redacted] 25X1
Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC, [redacted] 25X1

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